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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,628	01/22/2007	Jean-Marie Basset	P08765US00/BAS	4254
881 STITES & HARBISON PLLC 1199 NORTH FAIRFAX STREET			EXAMINER	
			LE, HOA T	
SUITE 900 ALEXANDRI	A. VA 22314		ART UNIT	PAPER NUMBER
	.,		1794	
			MAIL DATE	DELIVERY MODE
			09/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/550.628 BASSET ET AL. Office Action Summary Examiner Art Unit H. (Holly) T. Le 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-33 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 01/2007.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/550,628

Art Unit: 1794

#### DETAILED ACTION

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly
  - claiming the subject matter which the applicant regards as his invention.

 Claims 3-16, 18, 19, 22-31 and 33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 3, the term "preferably" renders the claim indefinite because it is unclear whether the limitation(s) following the term are part of the claimed invention. See MPEP § 2173.05(d). In addition the claim contains a narrow range (0.5 to 800) within a broader range (0.1 to 1000). A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu. 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949).

Application/Control Number: 10/550,628

Art Unit: 1794

In claim 4, the phrase "in particular" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention.

See MPEP § 2173.05(d).

Claims 5 and 8 are deemed indefinite in view of its dependency on claim 4.

Claims 6, 7 and 9 suffer the same deficiencies of claim 3.

Claim 10 suffers the same deficiency of claim 4.

Claim 11 suffers the same deficiencies of claim 3.

Claims 12-13 are deemed indefinite in view of its dependency on claim 4.

Claims 14-16 the same deficiencies of claim 3.

Claim 18 suffers the same deficiencies of claim 3 with regard to the narrow/broad limitations and of claim 4 with regard to the phrase "in particular".

Claim 19 suffers the same deficiency of claim 4.

In claim 22, the phrase "in particular" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d). In addition, it is unclear as to what step that "the preceding step" refers.

Claims 23-25 are deemed indefinite in view of their dependency upon claim 22.

Claims 26-31 and 33 provide for the use of a compound, but, since the claims do not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced. See MPEP § 2173.05(d).

Application/Control Number: 10/550,628 Page 4

Art Unit: 1794

Claim 26 is also incomplete, i.e. "the compound according to" what?

Claim 29 suffers the same deficiencies of claim 3 with regard to the narrow/broad limitations and of claim 4 with regard to the phrase "in particular".

Claim 31 suffers the same deficiency of claim 4.

#### Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 26-31 and 33 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products*, *Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

#### Claim Rejections - 35 USC § 102/103

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Page 5

Application/Control Number: 10/550,628

Art Unit: 1794

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1-33 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Vidal et al (US 6,229,060).

Claim 1: Vidal teaches a compound comprising an alumina support and a tungsten hydride grafted on the surface of the support. See col. 2, lines 15-17 and col. 4, lines 1-6. In the alternative, Vidal teaches a compound with either alumina or silica as the support and tungsten hydride or tantalum hydride as the surface drafting compound. One of ordinary skill in the art would have found it obvious to select either combinations of support and drafting material depending on the hydrocarbons desired in the metathesis.

Claims 2-9: See col. 4, lines 1-6. The BET as claimed is BET for commercially available alumina and silica. In the alternative, it would have been obvious to select a support with the BET as claimed as Vidal teaches that all are equivalently suitable as a catalytic compound in alkane metathesis.

Claims 10-21: The silica-alumina suggested at col. 4, lines 4-6 meet the proportions of mixed and modified alumina as claimed. In the alternative, it would have

Application/Control Number: 10/550,628

Art Unit: 1794

been an obvious matter of choice to select aluminas including those as claimed or depending on the hydrocarbons desired in the metathesis.

Claim 22: The method of making the compound comprising dispersion and grafting is taught at col. 2, line 62 to col. 3, line 9 and col. 4, lines 1-3.

Claim 24: See col. 3, lines 10-12.

Claims 25-26: See col. 3, lines 28-38.

Claims 27-33: See col. 4, line 8 to col. 5, line 18.

Claims 26-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Vidal et al (US 6,229,060) in view of either Vanoppen (US 7220,888) or Basset (US 6,469,225).

Vidal teaches the use of a catalytic compound of tungsten-hydride-grafted alumina catalyst in alkane metathesis as discussed above. While Vidal does not give all specific structure of the carbon skeleton in the hydrocarbons or the method of manufacturing alkanes, the teaching of Vanoppen suggests the use in a method comprising modified carbon skeleton and Basset suggests the use of the catalyst in a method of making alkanes. Therefore, one of skill in the art would have been motivated to extend the use of the catalyst as taught by Vidal in the uses suggested by either Vanoppen or Basset.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. (Holly) T. Le whose telephone number is 571-272-1511. The examiner can normally be reached on 12:30 p.m. to 9:00 p.m. (EST), Mondays to Fridays. Art Unit: 1794

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho can be reached on 571-272-1123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. (Holly) T. Le/ Primary Examiner, Art Unit 1794

September 14, 2009